



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Filling of potholes in ward no 17

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
1	GSB	Materials				
2	WMM	SIEVE ANALYSIS	One Test		1	1
		Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
6	TACK COAT	Rate of spread	One Test		1	1

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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**TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011))**

Lab ID : CP-RW-2023-08-01-04 Date: 10-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-05-21
Type of Mix : GSB (Granular Sub Base)
Date of Test : 08-05-21
Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	2179	3176	31.76	68.24	55-90
9.5	1292	4468	44.68	55.32	35-65
4.75	1490	5958	59.58	40.42	25-50
2.36	2250	8208	82.08	17.92	10-20
0.85	1350	9558	95.58	4.42	2-10
0.425	320	9878	98.78	1.22	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2023-08-01-04 Date: 12-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 10-05-21
Type of Mix : WMM (Wet Mix Macadam)
Date of Test : 10-05-21
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	318	318	2.9	97.1	95-100
22.4	2260	2578	23.4	76.6	60-80
11.2	2189	4767	43.3	56.7	40-60
4.75	2241	7008	63.7	36.3	25-40
2.36	1631	8639	78.5	21.5	15-30
0.6	650	9289	84.4	15.6	8-22
0.075	1340	10629	96.6	3.4	0-5

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TEST REPORT OF AGGREGATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : CP-RW-2023-08-01-04 Date: 12-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 10-05-21
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test : 10-05-21

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Percentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2023-08-01-04 Date: 12-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 10-05-21
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test : 10-05-21

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.6%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.8%	
Combined Flakiness and Elongation Index for WMM	25.4%	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : CP-RW-2023-08-01-04 Date: 17-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer's Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-05-21
Sample Type : Bitumen
Reference to BIS codes : IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test : 15-05-21

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C, in 1/10th mm	64	Min 45mm
2	Softening Point, °C	51.4	Min. 47°C
3	Ductility, cm	99	Min. 40cm
4	Flash point, °C	294	Min. 220°C
	Fire point, °C	308	

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**TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011))**

Lab ID : CP-RW-2023-08-01-04 Date: 21-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-05-21
Type of Mix : DBM-Plant (Dense Bituminous Macadam)
Date of Test : 19-05-21
Weight of Sample : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	456	1056	21.12	78.88	56-80
4.75	1758	2814	56.28	43.72	38-54
2.36	400	3214	64.28	35.72	28-42
0.3	1340	4554	91.08	8.92	7-21
0.075	246	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID : CP-RW-2023-08-01-04 Date: 22-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-05-21
Type of Mix : DBM (Dense Bituminous Macadam)
Date of Test : 19-05-21

Table 500-6 : Physical Requirements for Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	15.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	10.0		
Strength	Aggregate Impact Value	20.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.59	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.37	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2023-08-01-04 Date: 22-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 19-05-21
Type of Mix : DBM (Dense Bituminous Mecadam)
Date of Test : 19-05-21

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow				
Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	-

* The results obtained are satisfactory as per standard requirements.

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**TEST REPORT OF AGGREGATE STRIPPING VALUE OF ROAD AGGREGATE
(IS:6241)**

Lab ID : CP-RW-2023-08-01-04 Date: 22-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-05-21
Type of Mix : DBM(Dense Bituminous Macadam)
Date of Test : 19-05-21

Type of Binder : 60/70
% of Binder Used : 4.5%
Weight of Aggregate : 200.0 gm
Weight of Binder : 9.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ



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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011))**

Lab ID : CP-RW-2023-08-01-04 Date: 02-06-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo No/000025/2021-22
Source of Sample : Sample supplied by Agency
Date of Receipt : 01-06-21
Type of Mix : DBM (Dense Bituminous Macadam)
Date of Test : 01-06-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	479	479.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	4.6	4.50
7	Average percentage	%		4.55

1/1/21

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager



Lab ID

CP-RW-2023-08-01-04

AFTER EXTRACTION(Trail-1)

Date: 02-06-21

Weight of Sample(gm) IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	52	52	10.9	89.1	71-95
13.2	64	116	24.2	75.8	56-80
4.75	152	268	55.9	44.1	38-54
2.36	52	320	66.8	33.2	28-42
0.3	94	414	86.4	13.6	7-21
0.075	51	465	97.1	2.9	2-8

Weight of Sample(gm) IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	44	44	9.2	90.8	71-95
13.2	97	141	29.4	70.6	56-80
4.75	122	263	54.8	45.2	38-54
2.36	63	326	68.0	32.0	28-42
0.3	77	403	84.0	16.0	7-21
0.075	58	461	96.1	3.9	2-8

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011))**

Lab ID : CP-RW-2023-08-01-04 Date: 06-07-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Date of Receipt : 05-07-21
Type of Mix : DBM (Dense Bituminous Macadam)
Date of Test : 05-07-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	478.5	479.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	4.7	4.50
7	Average percentage	%		4.60

1/1/21

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Lab ID

: CP-RW-2023-08-01-04

Date: 06-07-21

Weight of Sample(gm)

: 478.5
AFTER EXTRACTION(Trail-1)

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	52	52	10.9	89.1	71-95
13.2	65	117	24.5	75.5	56-80
4.75	151	268	56.0	44.0	38-54
2.36	52	320	66.9	33.1	28-42
0.3	93	413	86.3	13.7	7-21
0.075	51	464	97.0	3.0	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm)

: 479.5

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	43	43	9.0	91.0	71-95
13.2	97	140	29.2	70.8	56-80
4.75	121	261	54.4	45.6	38-54
2.36	63	324	67.6	32.4	28-42
0.3	73	397	82.8	17.2	7-21
0.075	58	455	94.9	5.1	2-8

* The results obtained are satisfactory as per standard requirements.

Note:-

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**TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part I) 1963 (RA 2007)**

Lab ID : CP-RW-2023-08-01-04 Date: 28-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-05-21
Type of Mix : BC-Plant (Bituminous Concrete)
Date of Test : 26-05-21
Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	504	3269	65.4	34.6	26-38
0.3	528	3797	75.9	24.1	18-28
0.15	457	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

Note:-

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Quality Manager

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2023-08-01-04 Date: 29-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-05-21
Type of Mix : BC(Bitumenous Concrete)
Date of Test : 26-05-21

Type of Binder : 60/70
% of Binder Used : 5.4%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.8 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : CP-RW-2023-08-01-04 Date: 29-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-05-21
Type of Mix : BC (Bituminous Concrete)
Date of Test : 26-05-21

Table 500-16 : Physical Requirements for Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.3	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.7		
Strength	Aggregate Impact Value	22.2	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.67	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.22	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Note:-

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2023-08-01-04 Date: 29-05-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 26-05-21
Type of Mix : BC (Bituminous Concrete)
Date of Test : 26-05-21

The results of the tests conducted on the Bituminous Concrete mix sample are as follow				
SL.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	-

* The results obtained are satisfactory as per standard requirements.

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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part I) 1963 (RA 2011)**

Lab ID : CP-RW-2023-08-01-04 Date: 03-06-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijaynagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo No/000025/2021-22
Source of Sample : Sample supplied by Agency
Date of Receipt : 02-06-21
Type of Mix : BC (Bituminous Concrete)
Date of Test : 02-06-21

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	475	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.40	5.50
7	Average percentage	%	5.45	

12/7/21

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Quality Manager



Lab ID

: CP-RW-2023-08-01-04

Date: 03-06-21

Total Weight of the Sample(gm)

AFTER EXTRACTION - Trail-1

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	64	70	14.7	85.3	70-88
4.75	125	195	41.1	58.9	53-71
2.36	69	264	55.6	44.4	42-58
1.18	34	298	62.7	37.3	34-48
0.6	22	320	67.4	32.6	26-38
0.3	54	374	78.7	21.3	18-28
0.15	35	409	86.1	13.9	12-20
0.075	30	439	92.4	7.6	4-10

Total Weight of the Sample(gm)

AFTER EXTRACTION - Trail-2

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	66	74	15.6	84.4	70-88
4.75	121	195	41.1	58.9	53-71
2.36	71	266	56.1	43.9	42-58
1.18	35	301	63.4	36.6	34-48
0.6	31	332	70.0	30.0	26-38
0.3	52	384	80.9	19.1	18-28
0.15	28	412	86.8	13.2	12-20
0.075	32	444	93.6	6.4	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

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All information Furnished by Agency/ Representative

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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-RW-2023-08-01-04 Date: 02-07-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Date of Receipt : 06-07-21
Type of Mix : BC (Bituminous Concrete)
Date of Test : 06-07-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.60	5.50
7	Average percentage	%	5.55	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID

: CP-RW-2023-08-01-04

Date: 02-07-21

Total Weight of the Sample(gm)

AFTER EXTRACTION - Trail-1

: 474

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	63	69	14.6	85.4	70-88
4.75	125	194	40.9	59.1	53-71
2.36	68	262	55.3	44.7	42-58
1.18	34	296	62.4	37.6	34-48
0.6	22	318	67.1	32.9	26-38
0.3	55	373	78.7	21.3	18-28
0.15	35	408	86.1	13.9	12-20
0.075	30	438	92.4	7.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)

: 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	66	74	15.6	84.4	70-88
4.75	122	196	41.3	58.7	53-71
2.36	71	267	56.3	43.7	42-58
1.18	35	302	63.6	36.4	34-48
0.6	31	333	70.2	29.8	26-38
0.3	51	384	80.9	19.1	18-28
0.15	28	412	86.8	13.2	12-20
0.075	32	444	93.6	6.4	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2023-08-01-04 Date: 03-06-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo No/000025/2021-22
Sample Condition : Satisfactory
Date of Receipt : 02-06-21
Type of Mix : Tack coat
Date of Test : 02-06-21

SL.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.77
5	Weight of tack Coat (d=c-b)	Kg	0.022	0.022
6	Rate of spread of tack coat	Kg/sq.m	0.244	0.244
7	Average	Kg/sq.m	0.244	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2023-08-01-04 Date: 02-07-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040
Customer Reference : EE/RRND/Wo No/000025/2021-22
Sample Condition : Satisfactory
Date of Receipt : 06-07-21
Type of Mix : Tack coat
Date of Test : 06-07-21

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.77
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.022
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.244
7	Average	Kg/sq.m	0.250	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2023-08-01-04 Date: 02-07-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo No/000025/2021-22
Sample Condition : Satisfactory
Date of Receipt : 11-08-21
Type of Mix : Tack coat
Date of Test : 11-08-21

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.022	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.244	0.256
7	Average	Kg/sq.m	0.250	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

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11/8/21

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2023-08-01-04 Date: 02-07-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo No/000025/2021-22
Sample Condition : Satisfactory
Date of Receipt : 07-09-21
Type of Mix : Tack coat
Date of Test : 07-09-21

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.022	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.244	0.256
7	Average	Kg/sq.m	0.250	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-RW-2023-08-01-04 Date: 02-07-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Date of Receipt : 07-09-21
Type of Mix : BC (Bituminous Concrete)
Date of Test : 07-09-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	473.5	474
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.70	5.60
7	Average percentage	%	5.65	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID

: CP-RV-2023-08-01-04

Date: 02-07-21

Total Weight of the Sample(gm)

AFTER EXTRACTION - Trail-1

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	65	71	15.0	85.0	70-88
4.75	125	196	41.4	58.6	53-71
2.36	69	265	56.0	44.0	42-58
1.18	33	298	62.9	37.1	34-48
0.6	22	320	67.6	32.4	26-38
0.3	54	374	79.0	21.0	18-28
0.15	35	409	86.4	13.6	12-20
0.075	30	439	92.7	7.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)

: 474

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	66	74	15.6	84.4	70-88
4.75	121	195	41.1	58.9	53-71
2.36	76	271	57.2	42.8	42-58
1.18	35	306	64.6	35.4	34-48
0.6	31	337	71.1	28.9	26-38
0.3	52	389	82.1	17.9	18-28
0.15	29	418	88.2	11.8	12-20
0.075	32	450	94.9	5.1	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011))**

Lab ID : CP-RW-2023-08-01-04 Date: 11-06-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park,
Customer Reference : Vijayanagar, Bangalore-560040.
Source of Sample : EE/RRND/Wo.No/000025/2021-22
Date of Receipt : Sample supplied by Agency
Type of Mix : 10-08-21
Date of Test : DBM (Dense Bituminous Macadam)
10-08-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	478.5	478
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	4.7	4.80
7	Average percentage	%	4.75	

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Lab ID

CP-RW-2023-08-01-04

Date: 11-06-21

Weight of Sample(gm) IS Sieve Size(mm)		AFTER EXTRACTION(Trail-1) 478.5			
	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	52	52	10.9	89.1	71-95
13.2	65	117	24.5	75.5	56-80
4.75	152	269	56.2	43.8	38-54
2.36	51	320	66.9	33.1	28-42
0.3	94	414	86.5	13.5	7-21
0.075	51	465	97.2	2.8	2-8

Weight of Sample(gm) IS Sieve Size(mm)		AFTER EXTRACTION(Trail-2) 478			
	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	44	44	9.2	90.8	71-95
13.2	99	143	29.9	70.1	56-80
4.75	122	265	55.4	44.6	38-54
2.36	64	329	68.8	31.2	28-42
0.3	78	407	85.1	14.9	7-21
0.075	58	465	97.3	2.7	2-8

* The results obtained are satisfactory as per standard requirements.

Note:-

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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-RW-2023-08-01-04 Date: 02-07-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Date of Receipt : 11-08-21
Type of Mix : BC (Bituminous Concrete)
Date of Test : 11-08-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.60	5.50
7	Average percentage	%	5.55	

1/1/21

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಕಾರಿಗಳು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID

CP-RW-2023-08-01-04

Date: 02-07-21

Total Weight of the Sample(gm)

AFTER EXTRACTION - Trail-1

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	64	70	14.8	85.2	70-88
4.75	125	195	41.1	58.9	53-71
2.36	69	264	55.7	44.3	42-58
1.18	32	296	62.4	37.6	34-48
0.6	22	318	67.1	32.9	26-38
0.3	53	371	78.3	21.7	18-28
0.15	35	406	85.7	14.3	12-20
0.075	31	437	92.2	7.8	4-10

Total Weight of the Sample(gm)

AFTER EXTRACTION - Trail-2

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	66	74	15.6	84.4	70-88
4.75	121	195	41.1	58.9	53-71
2.36	72	267	56.3	43.7	42-58
1.18	35	302	63.6	36.4	34-48
0.6	31	333	70.2	29.8	26-38
0.3	52	385	81.1	18.9	18-28
0.15	29	414	87.2	12.8	12-20
0.075	32	446	94.0	6.0	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಕಾರಿ
ಯಶವಂತಪುರ ರಸ್ತೆ ವಿಭಾಗ
ಬೃಹತ್ ಮಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ



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End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2023-08-01-04 Date: 07-06-21
Customer : Assistant Executive Engineer, Yeshwanthapura Sub Division, BBMP, Bangalore.
Address : Yeshwanthapura Sub Division, BBMP, Bangalore.
Project Name : Filling of potholes in ward no 17
Agency : H S Palaksha Murthy, #703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagar, Bangalore-560040.
Customer Reference : EE/RRND/Wo.No/000025/2021-22
Source of Sample : Sample supplied by Agency
Date of Receipt : 01-06-21
Type of Mix : DBM (Dense Bituminous Macadam)
Date of Test : 06-09-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	479.5	478
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	4.5	4.80
7	Average percentage			4.65

1-1-2-2

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Quality Manager

Lab ID

CP-RW-2023-08-01-04

AFTER EXTRACTION(Trail-1)

Date: 07-06-21

Weight of Sample(gm)	IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
479.5						
	37.5	0	0	0.0	100.0	100
	26.5	0	0	0.0	100.0	90-100
	19	50	50	10.4	89.6	71-95
	13.2	63	113	23.6	76.4	56-80
	4.75	152	265	55.3	44.7	38-54
	2.36	52	317	66.1	33.9	28-42
	0.3	92	409	85.3	14.7	7-21
	0.075	51	460	95.9	4.1	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm)	IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
478						
	37.5	0	0	0.0	100.0	100
	26.5	0	0	0.0	100.0	90-100
	19	44	44	9.2	90.8	71-95
	13.2	97	141	29.5	70.5	56-80
	4.75	122	263	55.0	45.0	38-54
	2.36	63	326	68.2	31.8	28-42
	0.3	77	403	84.3	15.7	7-21
	0.075	58	461	96.4	3.6	2-8

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

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ಯಶವಂತಮಠ ಉಪ ವಿಭಾಗ
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